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Technical Efficiency Analysis of Poultry in District of 50 Kota (Stochastic Frontier Production Function Approach)

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Abstract

The study was conducted to estimate the factors that influencing egg production and to analyze the production efficiency of poultry in district of 50 Kota. This research based on primary data collected from 36 farmers. The model used are the stochastic frontier production function, with MLE method. The result of this research shows that the technical efficiency estimate of egg production range between 55.67% and 99.93 % with mean efficiency of 74.72%. This indicates that the farmers are 74.72% efficient in the use of their inputs. The technical efficiency can be increased by the use of more feed ($P < 0.01$). The age and knowledge of farmers not significantly effect the technical inefficiency ($P > 0.05$).

Keywords: *poultry production, technical efficiency, technical inefficiency*